

AMENDMENTS TO THE CLAIMS

Please cancel Claims 6-9; amend Claims 1 and 3-5; and, add new Claims 10-13 as follows.

LISTING OF CLAIMS

1. (currently amended) An air conditioner for a vehicle comprising:
 - a cooling device for cooling air;
 - a heating device provided downstream of the cooling device for heating air;
 - an air mix door for adjusting a ratio of a volume of air ~~to be heated by that~~ bypasses the heating device and which flows through a first passage communicating with a first opening to a volume of ~~cooled air that is cooled by the cooling device and bypasses~~ flows through the heating device and through a second passage communicating with a second opening, thereby controlling a temperature of air to be blown into a passenger compartment of the vehicle;
 - a unit case housing the cooling device, the heating device and the air mix door, wherein the unit case defines ~~[[a]]~~ the first opening through which air to be blown toward an upper region of the passenger compartment flows and ~~[[a]]~~ the second opening through which air to be blown toward a lower region of the passenger compartment flows;
 - and
 - a switching door rotatably supported in the unit case ~~for opening and closing a first passage communicating with the first opening and a second passage communicating with the second opening~~, the switching door movable between a first position where the first passage is open and the second passage is closed and a second position where the first passage is closed and the second passage is open; wherein

the switching door includes a guide plate that is rotatable with the switching door, and

the guide plate is disposed to direct heated air, which is heated by the heating device, such that the heated air merges with the cooled air flowing in the first passage when the switching door ~~opens the first passage and closes the second passage~~ is in the first position and to direct the cooled air such that the cooled air merges with the heated air flowing in the second passage when the switching door ~~closes the first passage and opens the second passage~~ is in the second position.

2. (original) The air conditioner according to claim 1, wherein the switching door is disposed such that the guide plate opens and closes at least a part of the second opening.

3. (currently amended) The air conditioner according to claim 1, wherein the guide plate has an arc shape ~~along a circumference of rotation~~.

4. (currently amended) The air conditioner according to claim 1, wherein the switching door has side walls extending from ends of the guide plate to a rotation axis of the switching door so that the switching door forms a substantially U-shaped ~~opening~~ structure,

when the switching door closes the second passage, the heated air flows through the U-shaped ~~opening~~ structure, and when the switching door closes the first passage, the cooled air flows through the U-shaped ~~opening~~ structure.

5. (currently amended) The air conditioner according to claim 1, further comprising:

a defrost/face door supported in the unit case,

wherein the first opening includes a face opening through which air to be blown toward an upper half body of a passenger flows and a defrost opening through which air to be blown toward a windshield of the vehicle flows, and the defrost/face door ~~is disposed to move for opening and closing~~ opens and closes both the defrost opening and the face opening.

6.-9. (cancelled)

10. (new) An air conditioner for a vehicle comprising:

a cooling device for cooling air;

a heating device provided downstream of the cooling device for heating air;

an air mix door for adjusting a ratio of a volume of air to be heated by the heating device to a volume of cooled air that is cooled by the cooling device and bypasses the heating device, thereby controlling a temperature of air to be blown into a passenger compartment of the vehicle;

a unit case housing the cooling device, the heating device and the air mix door, wherein the unit case defines a first opening through which air to be blown toward an upper region of the passenger compartment flows and a second opening through which air to be blown toward a lower region of the passenger compartment flows; and

a switching door rotatably supported in the unit case for opening and closing a first passage communicating with the first opening and a second passage communicating with the second opening, wherein

the switching door includes a guide plate that is rotatable with the switching door;

the guide plate is disposed to direct heated air, which is heated by the heating device, such that the heated air merges with the cooled air flowing in the first passage when the switching door opens the first passage and closes the second passage and to direct the cooled air such that the cooled air merges with the heated air flowing in the second passage when the switching door closes the first passage and opens the second passage;

the switching door has side walls extending from ends of the guide plate to a rotation axis of the switching door so that the switching door forms a substantially U-shaped structure; and

when the switching door closes the second passage, the heated air flows through the U-shaped structure, and when the switching door closes the first passage, the cooled air flows through the U-shaped structure.

11. (new) The air conditioner according to claim 10, wherein the switching door is disposed such that the guide plate opens and closes at least a part of the second opening.

12. (new) The air conditioner according to claim 10, wherein the guide plate has an arc shape.

13. (new) The air conditioner according to claim 10, further comprising:

a defrost/face door supported in the unit case,

wherein the first opening includes a face opening through which air to be blown toward an upper half body of a passenger flows and a defrost opening through which air to be blown toward a windshield of the vehicle flows, and the defrost/face door opens and closes both the defrost opening and the face opening.